

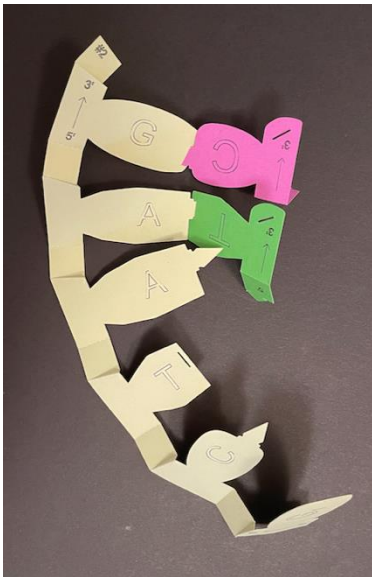
Assembling DNA using individual nucleotides

1) Fold nucleotides (one mountain fold each)

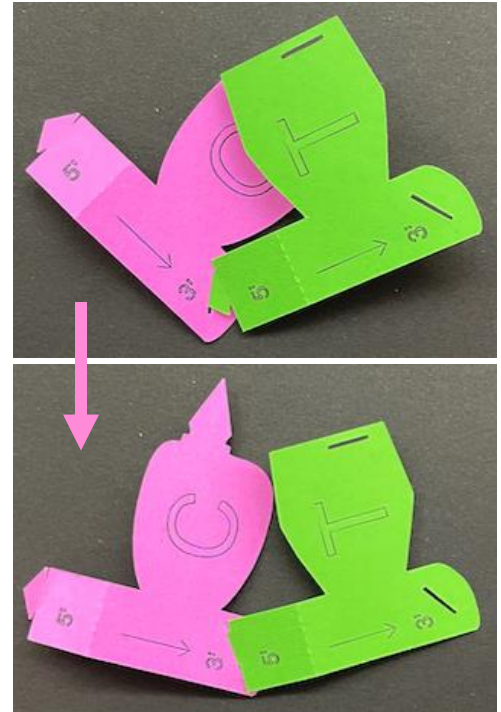


Note: The tab-and-slot fitting for the phosphodiester bonds is rather snug (to withstand gravity). It is easiest to first insert the base-proximal side of the tab, then twist to finish insertion.

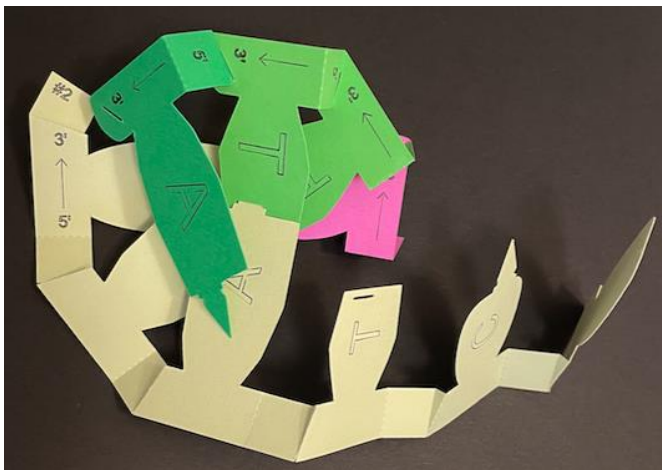
2) Pair 2 nucleotides with existing DNA strand



3) make a "phosphodiester bond" between them



4) continue adding nucleotides



5) add a coffee stirrer under the top base pair for extra stability

